

Abstract

A lens array and a method for fabricating the lens array are described herein. The lens array is made from a photosensitive glass plate containing a relatively small amount of a photosensitive agent (e.g., silver, gold or combination thereof) such that when the photosensitive glass plate is subjected to an exposure step, a heat treatment step and an optional ion exchange step it becomes a glass composite plate that includes glass regions which are lenses and also includes an opaque opal region located around each of the lenses. The lens array has clear, colorless lenses exhibiting greater sag heights than those yellow lenses found in a traditional lens array made from the traditional photosensitive glass plate which was subjected to similar exposure, heat treatment and ion exchange steps.